

CONFIDENTIALVIA AIRDISPATCH NO. 25X1~~SECRET~~TO:

DATE

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INFO:

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FROM: Chief, SR

GENERAL -

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SUBJECT:

SPECIFIC - Hydrogen Gas Generator

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REFERENCE: DIR 27332 and related traffic.

ACTION REQUIRED: For information and comment.

1. The Mobile Hydrogen Generator developed by KURIOT has now successfully completed extensive periods of testing and overhauling and can be made available for field use. KURIOT informs that the unit was operated continuously for three weeks with excellent results and as far as the reliability of any technical equipment can be predicted we expect it to operate without requiring major repairs not servicable locally. Although described in previous traffic we are repeating below the main characteristics of this equipment.

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- a. Performance - 4000 cu ft of generated gas an hour (hydrogen and nitrogen) equal to 3000 cu ft pure hydrogen an hour. At 50 lbs of lift per 1000 cu ft of generated gas the generator produces ca. 200 lbs of lift per hour.
- b. Raw Material - 88.88 lbs of anhydrous ammonia per 4000 cu ft of generated gas. 6 gallons of jet engine fuel or diesel oil per hour.
- c. Size: - The generator is installed in a 2-ton panel truck.
- d. Cost: - Since the equipment was developed for experimental purposes it is available at no cost to the projects. (Approximate cost to reproduce \$20,000.)

2. We recognize that even with the technical problems apparently resolved there remain the political and cover problems connected with the turnover of this equipment. In view of renewed pressures to

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PAGE TWO

25X1

curtail ballooning activities by [redacted] which 25X1
may eventually force us to withdraw all such activities [redacted] launching 25X1
bases, we suggest that further consideration be given to making this equip-
ment available for use [redacted] 25X1

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Distribution:

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1 - TSS/Eng.

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